



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management

James G. Martin, Governor
William W. Cobey, Jr., Secretary

November 5, 1992

William L. Meyer
Director

Mr. G. Alan Farmer, Chief
RCRA Branch
Waste Management Division
US EPA, Region IV
345 Courtland Street, NE
Atlanta, Georgia 30365

Attention: Mr. Richard Campbell

Reference: Modification to Post-Closure Plan
Asheville Dyeing and Finishing
Swannanoa, North Carolina
NCD 070 619 663

Dear Mr. Farmer:

Enclosed is a copy of the Modification to Post-Closure Plan for the former hazardous waste tank area at Asheville Dyeing and Finishing located in Swannanoa, North Carolina.

If you have any questions, please contact Rob McDaniel at (919) 733-2178.

Sincerely,


Jerome H. Rhodes, Chief
Hazardous Waste Section

JHR/RCM/168

Enclosure

cc: William F. Hamner
James A. Carter
Robert C. McDaniel



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management

James G. Martin, Governor
William W. Cobey, Jr., Secretary

November 5, 1992

William L. Meyer
Director

Mr. Steve Pegg
Director of Employee Relations
Asheville Dyeing and Finishing
Warren Wilson College Road
Swannanoa, North Carolina 28778

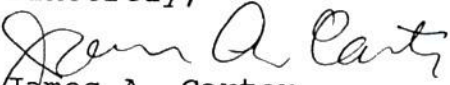
Reference: Receipt of Modification to Post-Closure Plan
Former Hazardous Waste Underground Storage Tank
NCD 070 619 663

Dear Mr. Pegg:

This letter acknowledges the receipt on November 4, 1992 of six (6) copies of the Modification to the Post-Closure Plan, dated October 27, 1992, for the former underground hazardous waste storage tank for Asheville Dyeing and Finishing. The requested modification to the post-closure plan, to analyze ground water samples from monitoring wells MW-2, MW-12, MW-12d, and MW-13, will be public noticed and reviewed as soon as possible.

If you have any questions, please contact Robert McDaniel at (919) 733-2178.

Sincerely,


James A. Carter
Unit Supervisor
Permitting Branch
Hazardous Waste Section

JAC/RCM/169

cc: Richard Campbell, US EPA, Region IV
William F. Hamner
Spring Allen
Gray Stephens
Yvonne C. Bailey
Robert C. McDaniel

**Addendum of Closure/Post-Closure Plan
Asheville Dyeing and Finishing
Swannanoa, North Carolina
September 2, 1992**

7-1-92
SEP 11 1992
Hazardous Waste Section

**Prepared For
Asheville Dyeing and Finishing
Swannanoa, North Carolina**

**For Submittal To
North Carolina Department of Environment,
Health, and Natural Resources
Division of Solid Waste Management
Hazardous Waste Section
Raleigh, North Carolina**

**Prepared By
Aquaterra, Inc.
Raleigh, North Carolina**



**Addendum of Closure/Post-Closure Plan
Asheville Dyeing and Finishing
Swannanoa, North Carolina
September 2, 1992**

1 Introduction

This is an addendum to the *Closure/Post-Closure Plan* prepared by Roy F. Weston, Inc. (Weston), dated March 31, 1992, for the tetrachloroethene hazardous waste management unit at the Asheville Dyeing and Finishing facility located in Swannanoa, North Carolina. This addendum is in response to the July 8, 1992, correspondence from the North Carolina Department of Environment, Health, and Natural Resources, Division of Solid Waste Management, Hazardous Waste Section (HWS) addressing several modifications to the Weston *Closure/Post-Closure Plan*.

2 Closure Plan Modifications

2.1 Section 2.2.3.5 Permeability Standard

In Aquaterra's May 11, 1992, correspondence to HWS we indicated in paragraph 2 on page 2 that we recommend using a double-ring infiltrometer test to determine the permeability of the subsoil beneath the waste management unit (unit) as well as to verify the permeability of the cover material.

To elaborate, Aquaterra proposes to excavate a pit adjacent to the unit to a depth of approximately 6 feet. The sides of the pit will be sloped sufficiently to provide safe access into the pit. Soil disturbed during the excavation activities will be removed with a shovel from the pit bottom to the extent practical. Infiltrator rings will be secured on the pit bottom, and the test will be conducted for a period of approximately 24 hours. Once the test is complete, the pit will be backfilled with the excavated material. The permeability results will be supplied to the HWS.

3 Post-Closure Plan Modifications

3.1 Item #1

Ground water monitoring wells MW-2, MW-12, MW-12d, and MW-13 will be monitored throughout the post-closure care period on a semi-annual basis. The locations of the ground water monitoring wells are shown on the attached Figure (see Figure 1).

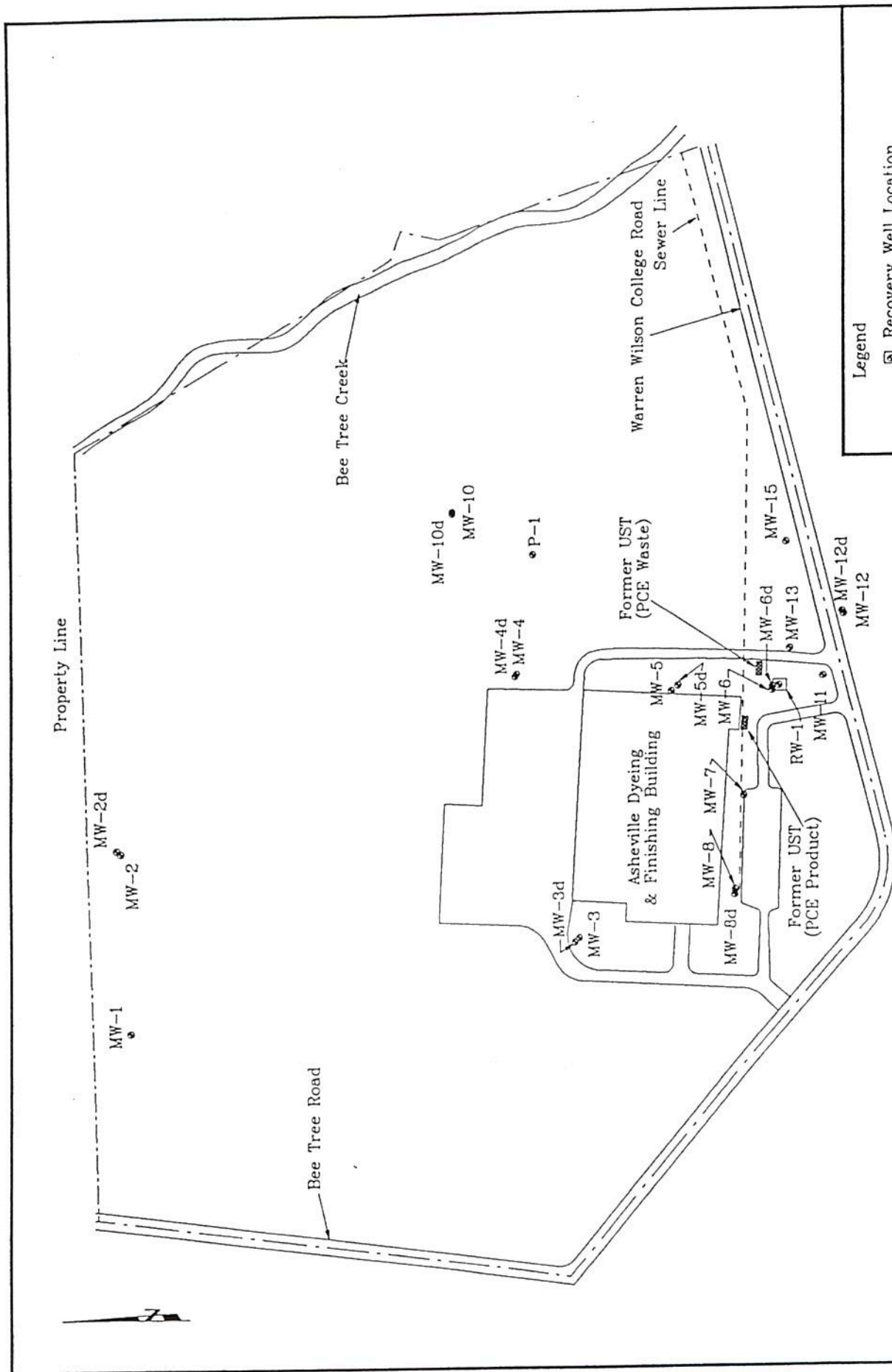
3.2 Item #2

Ground water monitoring wells MW-12, MW-12d, and MW-13 were installed downgradient of the unit. Monitoring well MW-13 is located approximately 70 feet downgradient and monitoring well nest MW-12 and MW-12d is located approximately 200 feet downgradient (see Figures 2 and 3). All three wells have indicated impacts to the ground water. These wells were installed as an alternative ground water monitoring system following 40 CFR 265.90(d).



3.3 *Appendix C: Ground Water Sampling and Analysis Plan*

The *Ground Water Sampling and Analysis Plan* prepared by Weston in Appendix C of the *Closure/Post-Closure Plan* has been revised twice by Aquaterra. Please reference the *Post-Closure Ground Water Sampling and Analysis Plan*, dated September 2, 1992, prepared by Aquaterra that includes the requested modifications (i.e., items a, b, and c).



Legend Recovery Well Location Existing Monitoring Well Location				Title Monitoring Well Location Map	
Project Asheville Dyeing & Finishing Swannanoa, North Carolina				Date 04-21-92	
Scale 1" = 300'				Layers 0.1.7	
Figure 1				Drawing 901-1	
Revision 7-8-92				Author DLG	
Job No. 901				Job No. 901	

AQUATERRA, INC.

Raleigh, Greensboro, Charlotte

N O R T H C A R O L I N A



Druse

State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management

James G. Martin, Governor
William W. Cobey, Jr., Secretary

July 8, 1992

William L. Meyer
Director

Mr. Steve Pegg
Director of Employee Relations
Asheville Dyeing and Finishing
Warren Wilson College Road
Swannanoa, North Carolina 28778

Re: Closure and Post-Closure Plans
Former Underground Hazardous Waste Tank
Asheville Dyeing and Finishing
NCD 070 619 663

Dear Mr. Pegg:

This letter is to notify Asheville Dyeing and Finishing that the closure and post-closure plans, for the former underground hazardous waste tank, dated March 31, 1992 and the addendum dated May 11, 1992, have been reviewed and a public notice of the plans was placed in the Asheville Citizen on May 9, 1992. A comment period of thirty (30) days has passed without any comments. The Hazardous Waste Section grants final approval of the plans with the following modifications:

Closure Plan

Section 2.2.3.5 Permeability Standard

Asheville Dyeing and Finishing must submit a plan to determine the permeability of the natural subsoils underlying the former underground hazardous waste tank. Once the permeability of the natural subsoils has been determined, the results must be submitted to the Hazardous Waste Section.

Post-Closure Plan

The Post-Closure Plan must state that the ground water monitoring wells will be monitored throughout the post-closure care period. The correct locations of these ground water monitoring wells must be shown on site maps. These modifications must be made in the post-closure plan and the ground water sampling and analysis plan.

Ground water monitoring wells MW-12, MW-13, and MW-14 must be located immediately down gradient of the former underground hazardous waste tank. If one of these ground water monitoring wells is determined not to be down gradient of the former underground hazardous waste tank, another ground water monitoring well must be installed immediately down gradient of the former underground hazardous waste tank.

Appendix C Ground Water Sampling and Analysis Plan

Section III. Water-Level Monitoring

The Water-Level Monitoring Section must be amended to include the following:

- a. A statement specifying the measuring point for the determination of water level measurements for each ground water monitoring well (ie., top of the north side of the inner casing, etc.);
- b. A statement indicating water level measurements will be obtained from all ground water monitoring wells and piezometers at Asheville Dyeing and Finishing;
- c. A statement specifying that monitoring wells with sealing caps on the inner casing will have the caps removed for a sufficient time, prior to obtaining water level measurements, to allow for equilibration of the water in the well.

This letter must be acknowledged as part of the closure plan in the closure certifications for the closure of the former underground hazardous waste tank area to be submitted to the Hazardous Waste Section. If you have any questions, please contact Robert McDaniel at (919) 733-2178.

Sincerely,


Jerome H. Rhodes, Chief
Hazardous Waste Section

JHR/RCM/148-149

cc: G. Alan Farmer, US EPA, Region IV
George T. Everett, DEM
William F. Hamner
James A. Carter
Spring Allen
Gray Stephens
Yvonne Bailey
Robert C. McDaniel



State of North Carolina
Department of Environment, Health, and Natural Resources
Division of Solid Waste Management
P.O. Box 27687 · Raleigh, North Carolina 27611-7687

James G. Martin, Governor
William W. Cobey, Jr., Secretary

William L. Meyer
Director

December 17, 1992

Mr. Steve Pegg
Director of Employee Relations
Asheville Dyeing and Finishing
Warren Wilson College Road
Swannanoa, North Carolina 28778

Reference: Receipt of Closure Certification
Former Hazardous Waste Underground Storage Tank
NCD 070 619 663

Dear Mr. Pegg:

The Hazardous Section has received Asheville Dyeing and Finishing's closure certification, dated December 11, 1992, for the closure of the former underground hazardous waste tank. The survey plat completed by a registered surveyor was submitted on December 16, 1992. A review of these items will be completed as soon as possible.

If you have any questions, please contact Rob McDaniel at (919) 733-2178.

Sincerely,


Jerome H. Rhodes, Chief
Hazardous Waste Section

cc: G. Alan Farmer, US EPA, Region IV
William F. Hamner
James A. Carter
Spring Allen
Gray Stephens
Yvonne Bailey
Robert C. McDaniel